CLAIMS

	<u> </u>		
Ju-	LI	—1 - 4	A composite material comprising a mixture of:
		2	a. papermaking sludge in granulated form; and
		3	b. a polymer composition comprising a synthetic polymer resin.
		4	
		1	2. The material of claim 1 wherein the sludge comprises at least 5% by weight of the
		2	mixture.
		3	
		1	3. The material of claim 1 wherein the sludge comprises at least 20% by weight of the
		2	mixture.
		3	
		1	4. The material of claim 1 wherein the sludge comprises at least 50% by weight of the
		2	mixture.
		3	
		1	5. The material of claim 1 wherein the sludge comprises at least 70% by weight of the
		2	mixture.
		3	
		1	6. The material of claim 1 wherein the sludge is highly porous.
		2	
		1	7. The material of claim/1 wherein the polymer composition is a plastic.

FIB-008

2



- 8. The material of claim 7 wherein the plastic comprises at least one of high-density
- 2 polyethylene, low-density polyethylene, polypropylene, polyvinyl chloride, and nylon.

3

- 9. The material of claim 1 wherein the mixture is amenable to processing by at least one of
- 2 extrusion, injection molding, and compression molding.

3

1 10. The material of claim 1 further comprising cellulose fibers.

2

1 11. The material of claim 10 wherein the cellulose fibers are in the form of rice hulls.

2

- 1 \\ \(\) \(\) \(\) A method of making a composite material, the method comprising the steps of:
- a. combining papermaking sludge in granulated form with a a polymer
- 3 composition comprising a synthetic polymer resin; and
- b. extruding, injection molding, or compression molding the mixture.

5

- 1 13. The method of claim 12 wherein the sludge comprises at least 5% by weight of the
- 2 mixture.

3

- 1 14. The method of claim 12 wherein the sludge comprises at least 20% by weight of the
- 2 mixture.

3

- 1 15. The method of claim 12 wherein the sludge comprises at least 50% by weight of the
- 2 mixture.

FIB-008

3 16. The method of claim 12 wherein the sludge comprises at least 76% by weight of the 1 2 mixture. 3 17. The method of claim 12 wherein the sludge is highly porous. 1 2 18. The method of claim 12 wherein the polymer composition is a plastic. 1 2 19. The method of claim 18 wherein the plastic compress at least one of high-density 1 polyethylene, low-density polyethylene, polypropylene, polyvinyl chloride, and nylon. 2 3 20. The method of claim 1 wherein the combining step further comprising adding 1 cellulose fibers to the sludge and polymer composition. 3 21. The method of claim 20 wherein the cellulose fibers are in the form of rice hulls. 1 2

FIB-008 26